

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003:

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAM	ENGINE FAMILY		FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
TEAR					PROCEDURE	CLASS 1	DDI, TC, CAC, ECM, EGR, OC,	EMD+			
2011	BVPTH10.8S01		10.8	Diesel	Diesel	HHDD	PTOX, SCR-U, OC, SPL	LIVIO :			
PRIMARY	ENGINE'S IDLE		ADDITIONAL IDLE EMISSIONS CONTROL 5								
EMISSIO	NS CONTROL	ADDITIONAL IDLE EMISSIONS CONTROL									
	30g	N/A									
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)									
10:8		See attachment for engine models and ratings (clean idle engines are labeled as 50-State compliant engines)									
L=liter; hp CNG/LI L/M/H I ECS=ei up catalyst; TBI=throttle	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h mission control syste ; DPF=diesel particu a body fuel injection;	ilowatt; hadiowatt; ha	r=hour, ral gas; LPG=liquef ry-duty diesel; UB=u OC=three-way/oxidia PTOX=periodic trap rsequential/multi por	ied petroleum gas; E85=85% eth irban bus; HDO=heavy duty Otto: zing catalyst; NAC=NOx adsorpti oxidizer; HO2S/O2S=heated/ox it fuel injection; DGI=direct gasolir	anol fuel; MF=multi on catalyst; SCR-L ygen sensor; HAF; ne injection; GCAR	i fuel a.k.a. BF I / SCR-N=sele S/AFS=heated/ B=gaseous cal	R 86.abc=Title 40, Code of Federal Regulations F=bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction urea / ammonia; W fair-fuel-ratio sensor (a.k.a., universal or linear or bruretor, ID/IDDI=indirect/direct diesel injection; rinjection; SPL=smoke puff limiter; ECM/PCM=	/U (prefix) =warm- xygen sensor); TC/SC=turbo/			

control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; SCR = Selective Catalytic Reduction system ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS=internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		co		PM		HCH O	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	*	*	*	*
FEL	*		*	*	*	*	*	*	0.00	0.00	*	*
CERT	0.02	0.01	0.13	0.09	*	*	*	*	0.001	0.002	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour, FTE=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ramp mode cycle supplemental emissions testing: NTE=Not-to-Exceed; STD=standard or emission test cap: FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/nydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: That the listed engine models are conditionally certified pending the engine manufacturer full disclosure of the engine family's auxiliary emission control device (AECD) strategies document. The manufacturer must submit the aforementioned document by February 14, 2011. Failure to resolve these related AECD concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification; in which case all engines covered under this conditional certification shall be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this _

day of December 2010.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak h (for diesel only)	5.Fuel Rate: HP(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@pea torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BVPTH10.8S01	N/A	MP7-325E	325 @ 1850	188.1	116.2	1282.0 @ 1200	241.3		EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-355E	355 @ 1800	212.4	127.6	1393.2 @ 1200	26 2.9	105.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-405E	405 @ 1800	247.6	148.8	1492.6 @ 1 200	2 82 .5	113.2	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-345A	345 @ 1500	236.2	118.3	12 49.1 @ 10 00	230.8	77.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-345C	345 @ 1500	236.2	118.3	1391.9 @ 1200	26 1.7	104.9	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-365C	365 @ 1450	259.7	125.7	1491.0 @ 1200	280.8	112.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-395C	395 @ 1500	274.7	1 3 7.6	1596. 6 @ 1200	304.0	121.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-325M	325 @ 1900	186.1	118.1	1215.3 @1200	228.5	91.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-365M	365 @ 1900	211.7	134.3	1360.5 @ 1200	257.3	103.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	MP7-405M	405 @ 1900	239.8	152.2	151 2 .6 @1200	286.2	114.7	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	D11H-325	325 @ 1700	201.4	114.3	1235.6 @ 1050	234.7	82.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	D11H-355	355 @ 1700	221.3	125.6	1228.5 @ 1050	235.2	82.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	D11H-365	365 @ 1700	225.9	128,2	1379.4 @ 1100	260.9	95.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	D11H-385	385 @ 1700	240.8	136.7	1508.0 @ 1200	284.3	113.9	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S01	N/A	D11H-405	405 @ 1800	248.9	149.6	1493.6 @ 1200	284.1	113.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR

DDI, TC, CAC, ECM, EGR, E OC, PTOX, SCR, OC, SPL

ATTACH MENT